

Abstract of the Invention

The metal oxide surface coating of an anodized valve metal may be made conductive under certain conditions so that conductive coatings can be electrolytically deposited on the surface of the oxide. When a dry polar aprotic electrolyte solution is used at a reduced temperature and a relatively high field is applied, the oxide ceases to be insulative. The process is reversible, meaning that there is no permanent change in the oxide.